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503.39668PX2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): J. HIRAI, et al  
Serial No.: 10/733,318  
Filed: December 12, 2003  
For: NUMERICALLY CONTROLLED CURVED SURFACE  
MACHINING UNIT  
Group: 2125  
Examiner: S. Shechtman

**AMENDMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

October 19, 2004

Sir:

In response to the Office Action dated July 26, 2004, the following amendments and remarks are respectfully submitted in connection with the above-identified application, as listed below and as set forth on the following pages:

Amendment of the Specification;  
Amendment of the Claims; and  
Remarks are included following the amendments.

### **REMARKS**

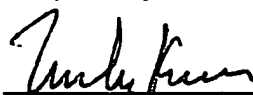
By the above amendment, the specification has been amended so as to update the Cross Reference to Related Applications.

In response to the requirement for restriction to one of the inventions identified as invention I - Claims 1-5, drawn to a machine coordinate transformation matrix for converting tool control point vectors on a workpiece coordinate system into a machine coordinate system, classified in class 700, subclass 194 and invention II - Claims 6-8, drawn to forming a NURBS curve having continuous curvature and calculating knot vectors of optimum distance of the NURBS curve, classified in class 700, subclass 189, applicants elect invention I of claims 1-5, and by the present amendment, in light of the restriction requirement, have cancelled claims 6-8 of invention II without prejudice or disclaimer of the subject matter thereof and without prejudice to the right to file a divisional application directed thereto. In this regard, applicants are submitting on even date herewith, a divisional application presenting claims 6-8.

In view of the above amendments and remarks, favorable action with respect to the elected invention I of claims 1-5 is respectfully requested.

To the extent necessary, applicant's petition for an extension of time under 37 CFR 1.136. Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account No. 01-2135 (503.39668PX2) and please credit any excess fees to such deposit account.

Respectfully submitted,



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